

L18 ANSWER 3 OF 11 CA COPYRIGHT 2007 ACS on STN

AN 139:358314 CA

TI Effect of **propolis** on human cartilage and chondrocytes

AU Cardile, Venera; Panico, Annamaria; Gentile, Barbara; Borrelli, Francesca; Russo, Alessandra

CS Department of Physiological Sciences, University of Catania, Catania, 95125, Italy

SO Life Sciences (2003), 73(8), 1027-1035

CODEN: LIFSAK; ISSN: 0024-3205

PB Elsevier Science Inc.

DT Journal

LA English

AB **Propolis**, a natural product derived from plant resins collected by the honeybees, has been used for thousands of years in folk medicine for several purposes. The extract that contains **amino acids**, phenolic acids, phenolic acid esters, flavonoids, cinnamic acid, terpenes and caffeic acid possesses several biol. **activities** such as antiinflammatory, immunostimulatory, antiviral, and antibacterial. In this study, the authors assay the effects of **propolis** extract on the production of key mol.s. released during chronic inflammatory events as nitric oxide (NO) and glycosaminoglycans (GAGs) in cultures of human cartilaginous tissues and chondrocytes, stimulated with interleukin-1 $\beta$  (IL-1 $\beta$ ). The authors observed that this natural compound and its active principle, caffeic acid phenethyl ester (CAPE), were able to contrast the harmful effects of IL-1 $\beta$ . The data clearly demonstrated the protective action of **propolis** in cartilage alteration, that appears greater than that elicited by indomethacin, commonly employed in joint diseases.

RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 8 OF 11 CA COPYRIGHT 2007 ACS on STN

AN 118:141867 CA

TI Acetylpolyamino acids as insecticides against lice on humans

IN Astruc, Jean; Morelle, Jean; Lauzanne-Morelle, Eliane

PA Fr.

SO Fr. Demande, 7 pp.

CODEN: FRXXBL

DT Patent

LA French

FAN.CNT 1

|      | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|------|--------------|------|----------|-----------------|----------|
|      | -----        | ---- | -----    | -----           | -----    |
| PI   | FR 2675015   | A1   | 19921016 | FR 1991-4474    | 19910412 |
|      | FR 2675015   | B1   | 19940121 |                 |          |
| PRAI | FR 1991-4474 |      | 19910412 |                 |          |

AB The acetylpolyamino acids AcNHRCO<sub>2</sub>H (R = amino acid residue) obtained by hydrolysis of collagen, keratin, albumin, or plant proteins are insecticides against lice (*Pediculus capitis* and *P. corporis*). The activity of the acetyl polyamino acids is enhanced by propolis or Ginkgo biloba exts.

L18 ANSWER 9 OF 11 CA COPYRIGHT 2007 ACS on STN

AN 105:127434 CA

TI Free **amino acids** in bee hive product (**propolis**  
) as identified and quantified by gas-liquid chromatography

AU Gabrys, Janusz; Konecki, Janusz; Krol, Wojciech; Scheller, Stanislaw;  
Shani, Jashovam

CS Dep. Histol. Embriol., Silesian Sch. Med., Zabrze-Rokitnica, 41-808, Pol.

SO Pharmacological Research Communications (1986), 18(6), 513-18

CODEN: PLRCAT; ISSN: 0031-6989

DT Journal

LA English

AB **Propolis** is a natural resinous product collected by honey bees  
and containing, among other biochem. constituents, a variety of free  
**amino acids**. Acid extraction and quantification of these  
**amino acids** by gas-liquid chromatog. reveals that their  
total concentration in this honey bee product is over 40% weight/weight, and

that

arginine [74-79-3] and proline [147-85-3] constitutes over 50% of the  
crude acid extract. As **propolis** was shown to stimulate mammalian  
tissue regeneration, the physiol. significance of arginine in the  
**propolis** product appears to lie in its ability to stimulate  
mitosis and to enhance protein biosynthesis, and the biochem. importance  
of proline stems from its capability to promote build-up of collagen and  
elastin, 2 essential components in the matrix of connective tissues. The  
relation of these results to the pharmacol. activity of  
**propolis** is discussed.

L16 ANSWER 532 OF 604 CA COPYRIGHT 2007 ACS on STN  
AN 108:81977 CA  
TI Formulation of **propolis** with  $\beta$ -cyclodextrin  
AU Szente, Lajos; Szejtli, Jozsef  
CS Cyclodextrin Res. Lab., Chinoin Pharm. and Chem. Works Ltd., Budapest,  
H-1026, Hung.  
SO Acta Pharmaceutica Technologica (1987), 33(4), 218-21  
CODEN: APTEDD; ISSN: 0340-3157  
DT Journal  
LA English  
AB **Propolis**, a hive product, is a heterogeneous, unstable,  
pastelike material of significant biol. activity. By mixing  
(and partially complexing) the **propolis** with  $\beta$ -cyclodextrin  
a free flowing nonhygroscopic powder can be prepared **Propolis** in  
this formulation showed a considerably enhanced stability to heat and alkaline  
treatment. The formulation of **propolis** with  $\beta$ -cyclodextrin  
is a convenient example for formulation of similar unstable,  
multicomponent natural exts.

=>

# EAST Search History



| Ref # | Hits   | Search Query                   | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|--------|--------------------------------|--|------------------|---------|------------------|
| L1    | 8607   | glycyrrhiz\$8 or glycyrrhiz\$8 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT          | OR               | ON      | 2007/10/11 00:49 |
| L2    | 348781 | flavor\$ or taste or sweet\$   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT | OR               | ON      | 2007/10/10 19:44 |
| L3    | 4216   | L1 and L2                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT          | OR               | ON      | 2007/10/10 19:44 |
| L4    | 1674   | 13                             | USPAT  | OR               | ON      | 2007/10/10 21:39 |
| L5    | 1232   | 14 and powder                  | USPAT  | OR               | ON      | 2007/10/10 21:39 |
| L6    | 177    | 11 near 12                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT          | OR               | ON      | 2007/10/10 21:50 |
| L7    | 73     | 15 and 16                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT          | OR               | ON      | 2007/10/10 21:52 |
| L8    | 1      | 17 and trehalose               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT          | OR               | ON      | 2007/10/10 21:52 |
| L9    | 47     | trehalose near 12              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT | OR               | ON      | 2007/10/10 22:53 |
| L10   | 28058  | \$cyclodextrin                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT | OR               | ON      | 2007/10/10 22:53 |

## EAST Search History

|     |        |   |  |    |    |                  |
|-----|--------|---|--|----|----|------------------|
| L11 | 170078 | citrate   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT | OR | ON | 2007/10/10 22:53 |
| L12 | 1107   | 10 with 11                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT | OR | ON | 2007/10/10 22:54 |
| L13 | 39     | 1 with solubility                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT          | OR | ON | 2007/10/11 00:53 |
| L14 | 2768   | propolis  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT          | OR | ON | 2007/10/11 00:52 |
| L15 | 1      | L14 and 113                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT          | OR | ON | 2007/10/11 00:52 |
| L18 | 453959 | wax or glue                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT          | OR | ON | 2007/10/11 00:56 |
| L19 | 56535  | 18 and solubility                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT          | OR | ON | 2007/10/11 00:54 |
| L20 | 989    | 11 and 119                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT          | OR | ON | 2007/10/11 00:56 |
| L21 | 8623   | (be\$2 adj wax) or (be\$2 adj glue) or propolis | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT          | OR | ON | 2007/10/11 00:59 |
| L22 | 390248 | solubility                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT          | OR | ON | 2007/10/11 00:59 |

### EAST Search History

|     |      |            |   |    |    |                  |
|-----|------|------------|---|----|----|------------------|
| L23 | 1695 | 21 and 22  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/10/11 00:59 |
| L24 | 26   | 21 with 22 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/10/11 00:59 |